

## Personal Information

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Pager	
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# Course Schedule

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# Message from The Secretary

Women today hold many key decisionernaking positions in covernment and throughous the transportation industry. a fict in which we all cautake escar pride. The fast 190 years have provided a trid extraordinary centure for women in transportation. Their leadership, management skills, knowledge, and determination-have been essential in achieving mnovations in American transportation, and we hold forward to even greater. challenges and opportunities in this new century













### .A Message from The Secretary (continued)

Section (1999)

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Trailer is above the mining of the creating and mescating at the same time. The world is charging a fast. There is a growing need for bright bigodingens would be bright bigodingens would who are proported for the chaffengers about and the temportageor industry can be a great career who declar you.

In a world where charge is the only constant, the skills you will need to constant the skills you will need to constant the skills you will need to constant inside world's growing dependence on technology, has made markanil science more important than ever before. They are the foundation for much of the rechnological advances that have become agreeussity for industry.

Transmittation inclines moving begins and cools. We need systems to support our daily activities of southing scatting for our families, and socializing. Mixture people inclines wilking, industrians likely subdiving metric bases transmit and along transmit a fact from the mist transfer and charge and efficiently over side of the south families and entire the subdiving and entire the subdiving our side of the south families.

### Time To Look Toward the Future (continued)

## Financial Aid for College

As you begin to plan your future and start to think about a college education—one question is certain to come up, "Can I afford the school I want to attend?"

There are no guarantees, of course, but you would be surprised at the amount of federal, state, institutional, and local financial aid available every year. The fact is that most students who apply for aid and who need it do receive all or part of what they need to attend their first-choice college. During the application process it is only good common sense to pick colleges with a range of costs, including some that are within your reach financially. However, cost alone should never be a deterrent in choosing the colleges to which you will apply.

#### Some Advice

If you need aid to meet the cost of college, you must be realistic, hopeful, and organized! Remember that it is possible for a college to offer admission to a student but not to offer financial aid. A college is not obligated to provide financial assistance to all accepted students, so be sure that you apply to at least one college whose cost is within reach of your resources without substantial aid.

#### Start Early

You don't need to wait for senior year test scores or for first-term grades to apply to most colleges. Once you have sent the application form, a college opens a "folder" for the needed information. As your senior grades, test scores, and recommendations become available, you can request that they be forwarded to the colleges you have selected. This information is then filed together with your application.

### Financial Aid for College (continued)

#### Follow Instructions

The single-most important step in completing a college admission application is also the simplest: read the instructions before starting to fill out the form. Read the entire form carefully, too. Colleges expect you to be able to read and follow directions; accomplishing this can set the stage for a favorable decision.

#### Grades Are Important

Although standardized test scores may influence a college's decision about your application, you have little control over that aspect of your profile. The most important part of your total application package is the secondary school record, and fortunately, it is the part over which you exercise the most control.

Plan your academic schedule wisely. Remember that colleges care about what courses you take almost as much as they care about how well you do in them! Senior year courses count.

Academic grades are very important in the junior year. A poor performance in the junior year sets the stage for an uphill battle in the first half of the senior year as you attempt to make up for past mistakes. In general, colleges prefer a steady rate of performance over inconsistent spurts of good and bad.

## The Terminology of Financial Aid

#### Types of Financial Aid

Grants and Scholarships—Money that carries no stipulation for repayment is known as a scholarship or a grant.

Loans—Any program described as a loan requires repayment, usually with interest, to the source of the funding.

Jobs—On- and off-campus employment for hourly wages during the academic year. In some cases, the jobs are designed to complement the student's field of study.

### Federal Student Aid Programs

Eligibility for Federal Student Aid Programs, except the Federal PLUS Loans and unsubsidized Federal Stafford Loans, is based primarily on financial need.

Federal Pell Grant—The Federal Pell Grant is the largest single aid program. It is awarded to students demonstrating high financial need and is not required to be repaid.

Federal Perkins Loans (formerly National Direct Student Loans)—A federally funded, campus-based loan that is administered by the college aid office.

Federal Supplemental Educational Opportunity Grant (FSEOG)—A federal, campus-based fund awarded to students who demonstrate significant financial need.

Federal Work Study (FWS)—FWS jobs are on- and off-campus jobs awarded to students who demonstrate financial need.

Federal Stafford Loans—Long-term, low-interest rate loans administered by the Department of Education through private commercial lending agencies (banks, credit unions, etc.).

### The Terminology of Financial Hid (continued)

Federal PLUS Loans—Long-term, variable interest rate federal loans that are available to the parents of dependent students.

William D. Ford Federal Direct Loan Program— This program is almost identical to the Federal Family Education Loan Program, except that the federal government is the lender and the funds are delivered directly to the school.

#### Institutional Hid

Institutional Scholarships and Grants—Non-federal gift aid programs administered by the college.

Institutional Loans—Non-federal loan programs administered by the college. These loans usually bear low-interest rates and have favorable repayment terms.

Institutional Student Employment—Some colleges offer on- and off-campus employment programs similar to the Federal Work Study program.

### State Aid Programs

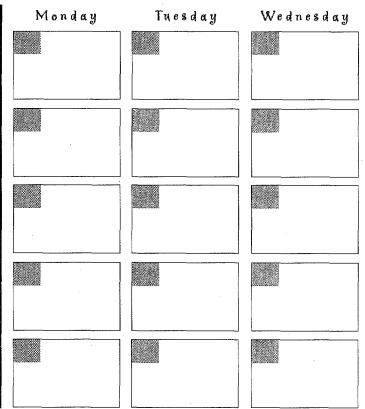
Various states have different financial aid programs for residents of their own states.

#### Private Aid Sources

Private Scholarships—Non-federal scholarships that originate outside of the college and that generally require the student to file a separate application.

Private Loans—Like private scholarships, private loans originate outside of the college and usually require a separate application.







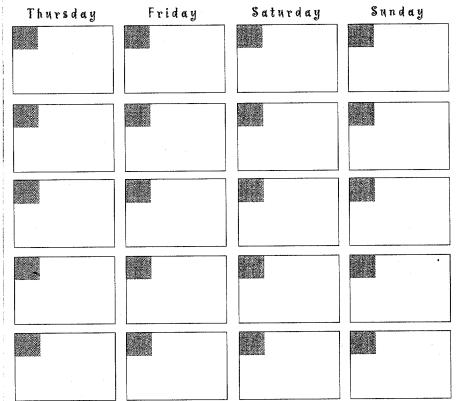
# Ancy Wagner Ship Captain San Francisco Bar Pilots

Captain Nancy Wagner is the first woman harbor pilot in the U.S. She was also one of the first group of women admitted to, and graduated from, the U.S. Merchant Marine Academy.

As a harbor pilot she handles the large ships entering and leaving ports—container cargo vessels, bulk freighters, cruise ships, and military vessels of all types.

"I have always loved the sea, but growing up I didn't dare think about shipping out. I took dance lessons like other little girls. The women's liberation movement started me on my way. I was majoring in journalism when I learned that the academy was accepting women. That was it for me. I applied immediately and began to live my dream."





## Carol H. Tan Esse

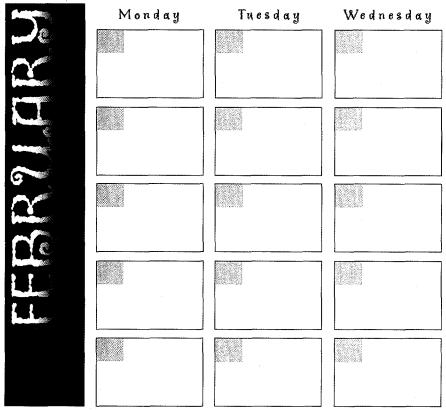
Highway Research Engineer Federal Highway Administration Pedestrian and Bicycle Safety Research Program

Carol Tan Esse specializes in finding ways to make roads safer for pedestrians and bicyclists for the Federal Highway Administration's Pedestrian and Bicycle Safety Research Program.

"I enjoy researching problems. You never know what you will find. Every project is different and has its own set of challenges. Seeing the application of research is also rewarding—especially knowing that the solutions you help uncover could save someone's life. There are some great opportunities in highway research for young women. For this career I would suggest that you take all the science and math available and work on developing good writing and speaking skills."









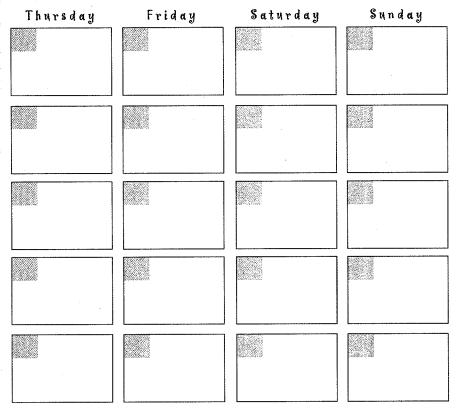
Eileen M. Baker

Electrical Engineer Parsons Brickerhoff, Inc.



Eileen M. Baker is an electrical engineer with Parsons Brickerhoff, Inc. Construction quality and progress evaluation, schedule and cost control, and project coordination are among her many responsibilities.

"I get a great deal of satisfaction watching a blueprint being transformed into a completed project. It gives you a sense of accomplishment. Women interested in this profession need to be good with people, quick thinkers, and decisive. There are many situations every day that need to be resolved quickly to stay on schedule. Math is essential, but equally important are communication skills."



### Frances Lockwood, Ph.D.

Vice President of Technology and Product Development Valvoline Oil Company



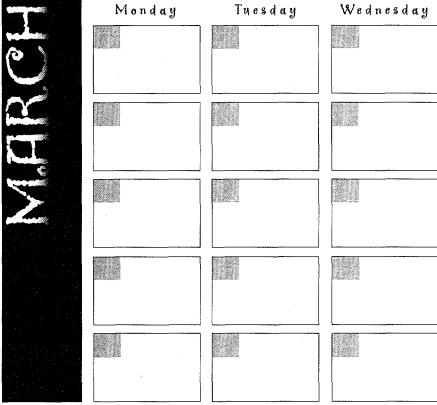
Tribology is the study of design, friction, wear, and lubrication of interacting surfaces. This science is important to Fran Lockwood, Vice

President of Technology and Product Development for the Valvoline Oil

Company which produces motor oil and other lubricants.

"I was born in one of the last generations where people expected women to get married and work in the home. When you have been brought up to think you probably can't do something, deciding to try it is risky. For young women considering a future career, when you find something you enjoy. . . and are good at it. . . take a risk."







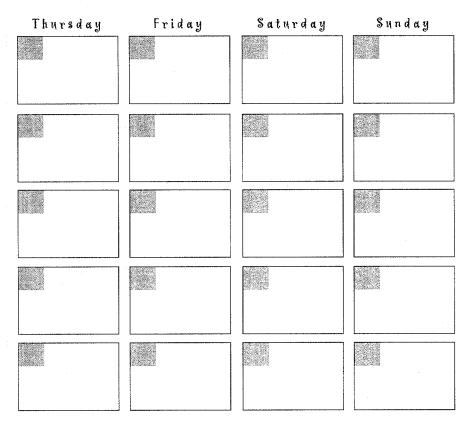
## Gloria Ma, Ph.D.

President & CEO Xxsys Technologies, Inc.



Gloria Ma is President and Chief Executive Officer of Xxsys Technologies, Inc., San Diego, CA. Her company uses ultrasound technology and composite materials to repair large structures such as bridges and columns.

"I determined early in life that I wanted to become a career woman. There have been many sacrifices associated with that choice. But my company is growing. My Chinese culture stresses harmony and trying to find solutions to problems. My business is doing that and saving lives through engineering."



# Tracy P. Welch Airline Captain American Airlines

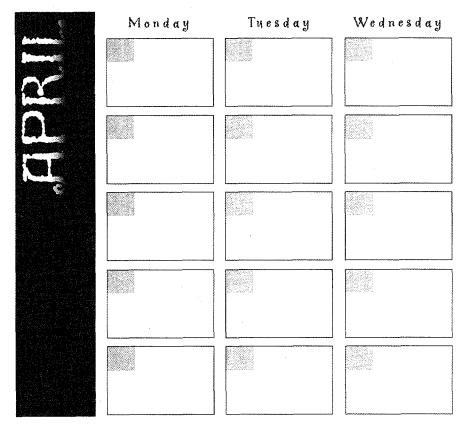


At 16 Tracy Welch knew she wanted to be an airline pilot. As a captain for American Airlines her schedule is varied, the salary is good, and she gets to see the U.S. from above the clouds.

There are three basic paths to a career as an airline pilot—civilian, active military, and military reserves.

"Once you get with a major airline, promotions are based on seniority. The younger you get hired the better. A shortage of pilots is predicted in the near future, so prospects for a career as a pilot are good. In choosing a career as a pilot, it is crucial to have a goal. It will keep you focused and motivated."







Susan M. Rokosz, P.E.

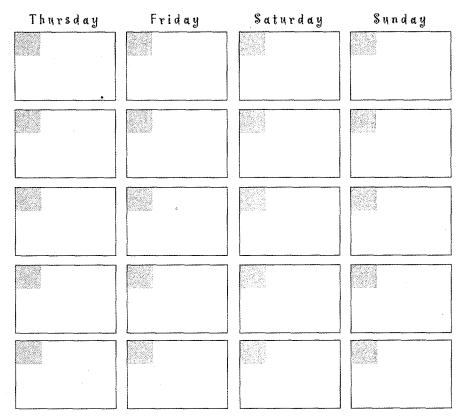
Principal Facility Environmental Control Engineer
Ford Motor Company



The Environmental Quality Office at Ford Motor Company is responsible for ensuring that all of Ford's manufacturing plants, worldwide, are in compliance with environmental laws and regulations.

As part of the environmental team, Susan Rokosz is responsible for ensuring that Ford's plants not only are conforming now but that their environmental performance is improving.

"Young women who are considering a career in the transportation industry will need excellent communication skills in addition to math and science. Being a clear, convincing writer and speaker is a must. The best ideas in the world are no good at all if you can't convey them to others."



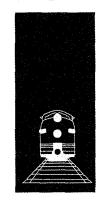
# Linda Bohlinger Executive Director South Florida Tri-County Commuter Rail Authority

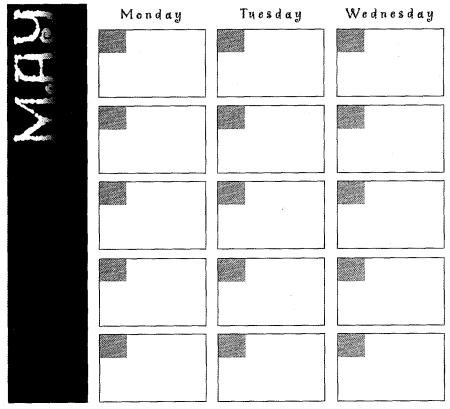


Linda Bohlinger is the executive director of the South Florida Tri-County Commuter Rail Authority (Tri-Rail).

Tri-Rail trains operate 7 days a week from 18 stations on a single north/south track shared by CSX freight trains and Amtrak's intercity passenger trains.

As the senior executive she leads the management team that is responsible for a 71-mile train system and oversees a \$21 million operating budget and \$60 million total capital budget, composed of local, state, and federal funds.







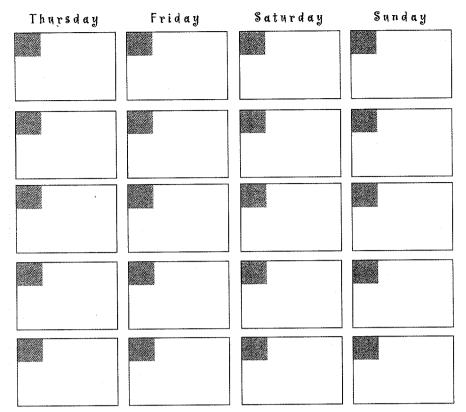
### Lillian C. Borrone

Director, Port Commerce Department
The Port Authority of New York and New Jersey

As director of the port commerce department, Lillian C. Borrone oversees the management of the major marine terminal facilities within the Port of New York and New Jersey. She is also responsible for several Port Authority waterfront development projects located in New York and New Jersey.

These terminals are the destination for cargo ships from around the globe carrying goods bound for the U.S., as well as the shipping point for billions of dollars in U.S. exported goods. Keeping these terminals accessible is critical to U.S. commerce.

"If you are interested in developing the technology and transportation systems for the future, join us. Engineers—we not only go places; we build the way to get there."



# Marilyn Cochrane Professional Driver

U.S. Xpress, Inc.



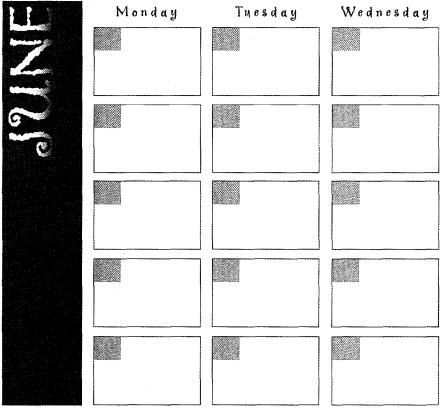
Marilyn Cochrane is a professional truck driver for U.S. Xpress, Inc. She has accumulated more than one million accident-free miles delivering freight throughout the continental 48 states and Canada.

Her profession has allowed her to travel coast to coast and enjoy more of the U.S. than most people have the opportunity to see.

She was recently selected as one of the top drivers in the U.S. and named Captain of America's Road Team. This elite group of drivers spends time teaching highway safety.

"My advice to young women is simple. Go for your dream."







## Miki Lloyd

Bridge Designer

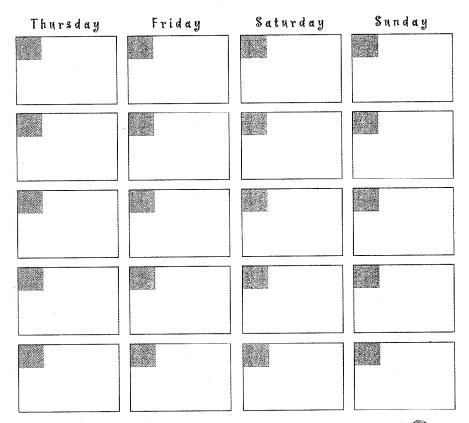
Montana Department of Transportation



Miki Lloyd likes to build. As a professional she designs bridges for the Montana Department of Transportation.

She compiles all the technical data needed to begin a bridge design. Then once her design is completed, she supervises the work of contractors who build her bridges from the foundation up.

"I love working as a civil engineer. If I were to offer advice to women aspiring toward a career in transportation, it would be to never limit yourself or your abilities. You'll never lose from trying because you always learn something along the way."



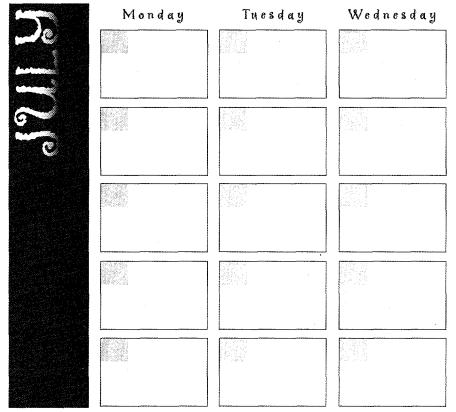
## Nicole M. Hackler

Traffic Engineer Palm Beach County, FL

As a traffic engineer in the special projects division for Palm Beach County, Nicole Hackler is responsible for most of the small intersection improvements. These projects range from new turn lanes, medians, intersection retrofitting, as well as a variety of other engineering tasks. She is responsible for most of her projects from start to finish.

"I can go to a site, see what needs to be accomplished, put my design on paper, then see a project completed that was, until recently, only an idea. Not many people can see the difference they make on their surroundings, but I certainly can. I wouldn't change my life or career for the world."







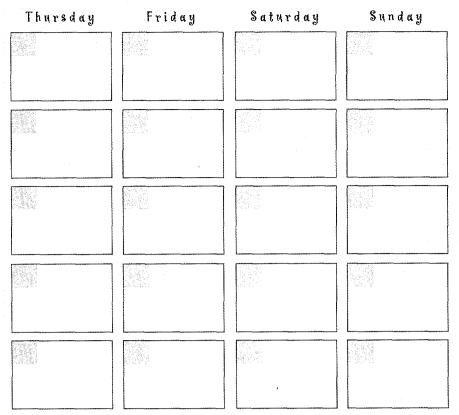
## Pamela M. Kordenbrock

Intelligent Transportation Engineer Federal Highway Administration Federal Transit Administration Los Angeles Metropolitan Office



Pam Kordenbrock is assigned to the joint Federal Highway
Administration/Federal Transit Administration Los Angeles Metropolitan
Office. She specializes in using technology to solve surface transportation
problems such as traffic congestion and incidents. This new and
challenging branch of transportation is called Intelligent Transportation
Systems (ITS).

"Working in ITS is fun. If you are interested in ITS, start taking math, science, and computer classes as soon as possible."

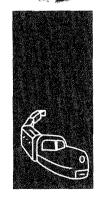


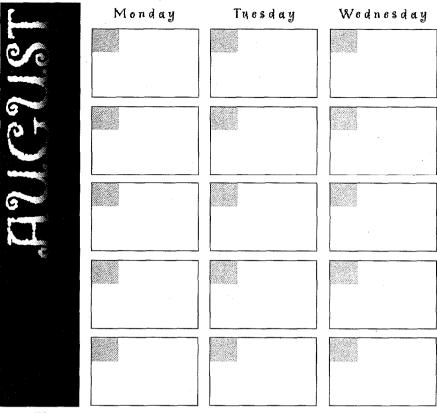
hirley A. Delibero
President & Chief Executive Officer
Houston, TX METRO



Affectionately known throughout the U.S. as the "Queen of Transit," Shirley Delibero joined METRO, Houston, Texas, in January 1999 as president and chief executive officer. She started her transit career about 25 years ago and spent 8 years as Executive Director of New Jersey Transit before moving to Houston. She also served transit authorities in Dallas; Washington, DC; and Boston.

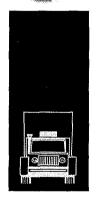
Named one of the top ten women in government, she was selected to serve on the Senior Advisors Group to the President's Council on Y2K Conversion.





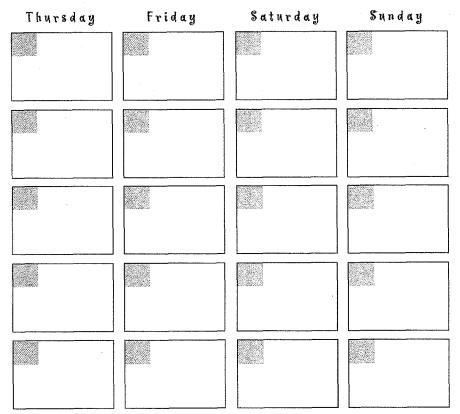


Health and Safety Manager United Parcel Service



Alexi Carli manages a comprehensive health and safety program for UPS. She is responsible for the occupational health and safety of more than 37,000 UPS employees who work in Illinois, Indiana, Wisconsin, and Kentucky.

"These days more and more women are coming to UPS as tractor-trailer drivers, delivery personnel, administrators, and pilots. My specialty, health and safety, takes a special blend of strategic thinking, creative problem solving, and determined leadership. I manage problems to protect people and the general public. That's an awesome responsibility. If you are looking for a future. . look to transportation."



Wendy Young
Heavy Equipment Engineer Operator
Payne & Dolan Company

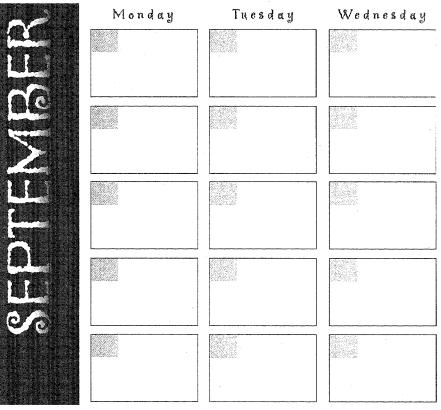


Wendy Young is a hot roller operator for the Payne & Dolan Company. During highway and road construction she is responsible for operating the equipment that compresses the material used for pavement to the desired thickness and smoothness.

"I like to get dirty. My dream and goal were to work in the field of construction. Over the years I have discovered that working in a field dominated by men has helped me develop a strong sense of self and family.

"After all the sweat and toil, when a project is complete, there is something special about looking back and saying, 'I was part of that'."



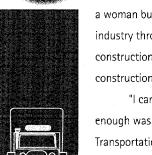




Lina Woodbury

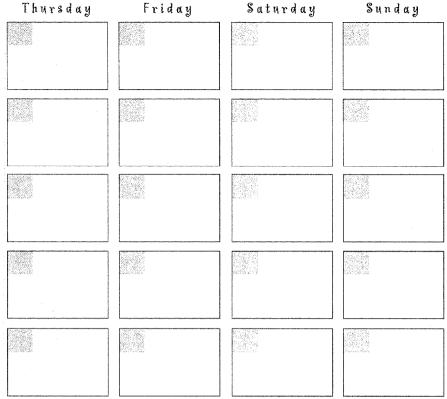
Business Owner

Maine Rebar Services



Tina Woodbury owns Maine Rebar Services. She is an example of a woman business owner who has become a success in the construction industry through her own determination and vision. Her company's construction professionals tie steel used for reinforcement in the construction of bridges, buildings, and other structures.

"I came from a family on welfare. I was also on welfare. But enough was enough. I got involved in the Maine Department of Transportation's On-the-Job Training Program where I learned to tie steel. If it weren't for all the programs out there, I wouldn't have this opportunity. Things have really changed in my life."



### **D**iana Gomez

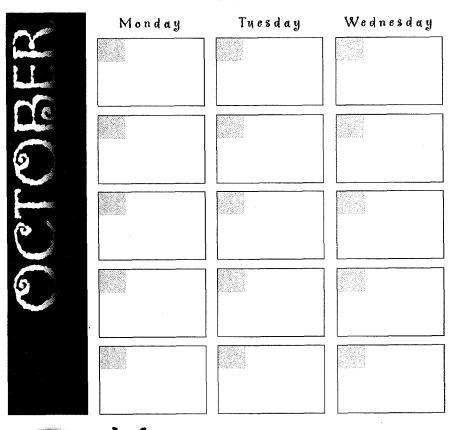
enior Transportation Electrical Engineer, Traffic Management for the California Department of Transportation

Diana Gomez applies her electrical engineering skills to traffic management. She is the Chief of the Office of Traffic Management for the California Department of Transportation (CalTrans).

The primary responsibility of her office is to reduce congestion by monitoring traffic and providing timely information to the public about traffic conditions throughout the Central Valley, Sierra Nevada Mountains, and the Coastal Range Mountains. The public is kept informed about traffic conditions in several different ways. Live radio and TV reports are broadcast during morning and afternoon commute times. Also, information is distributed to media centers within her region, as well as in the Sacramento, San Francisco, Central Coast, Los Angeles basin, and California's Desert communities.







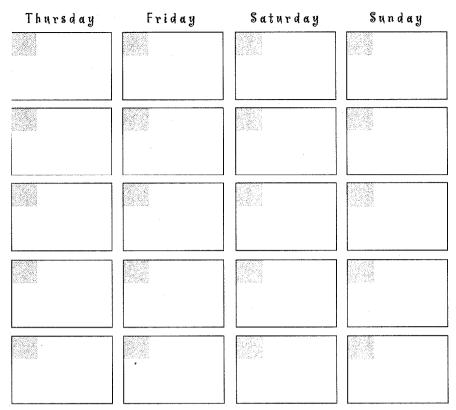
## Marjorie P. Silver

President Pinsly Railroad Company

Maggie Silver is president of Pinsly Railroad Company. Her company owns and operates five short-line railroads. A short-line railroad is a freight-hauling rail line of fewer than 100 miles that connects with long-distance rail carriers.

"Railroading has been in my family a long time. But my father did not believe in women having careers. He only let me work in the office, never in the switching yard or laying track. When he passed away, his banker and lawyer tried to persuade me to sell. I just was not interested in that. I had worked in the executive offices for years and not only knew the business but knew our customers. Where I lacked experience, I hired good people who had the necessary expertise."





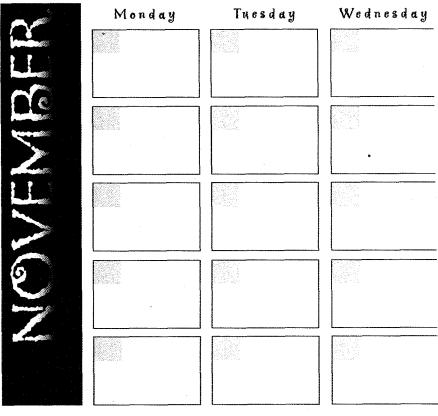
# Linda Both Director Alliance Capacity Customer Service Schneider National, Inc.



Linda Beth has helped Schneider National, Inc., grow into a billion dollar shipping company. The work pace is fast and demanding. She ensures that carriers pick up and deliver their shipments on time and without damage.

"I started in transportation 26 years ago. In the last 15 years, women in all levels of our company have grown to take on more and more responsibility and have been rewarded for their contributions. This is an exciting time to be in transportation. The industry needs bright, talented, energetic individuals to meet its challenges."







### Barbara Kovell

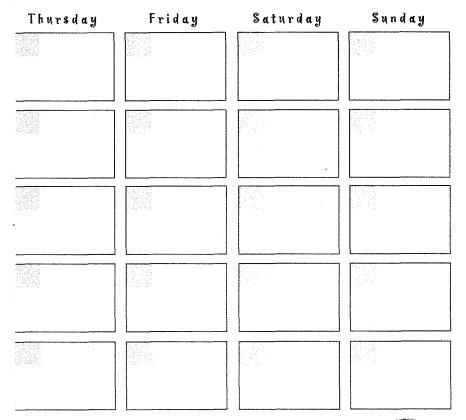
### President Syn-Lab Technology

Barbara Kovell founded Sun-Lab Technology in 1999. Although her company is only a year old, she has established her name in the transportation industry through almost two decades of hard work.

She begin as an executive secretary. The corporation was engaged in computerized geometric surveys that established safety zones for highways. During the next 17 years, she was promoted to positions in various divisions of the corporation. Her final position, vice president of marketing.

When the company was sold in 1998, she left to establish her own firm. Sun-Lab Technology manufactures large hinged reflectors for concrete barriers. A patent is pending for this innovative hinged design that prevents damage and vandalism.



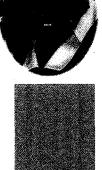


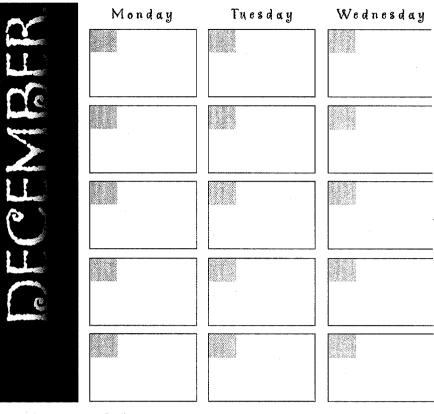
# uria Fernandez Acting Administrator Federal Transit Administration

The Federal Transit Administration focuses on the role of public transportation in making America's communities better for America's citizens. As acting administrator, Nuria Fernandez manages a \$5.8 billion budget and leads a staff of almost 500.

"I believe in giving back to the community. I get great satisfaction from mentoring female college students who aspire to professional careers and leadership roles in their communities."

"My first day at engineering school was a bit of a shock: only 15% of the freshman class were women. The guys in the class all seemed to be the numbers-type, but we women had our share of brains, determination and common sense."





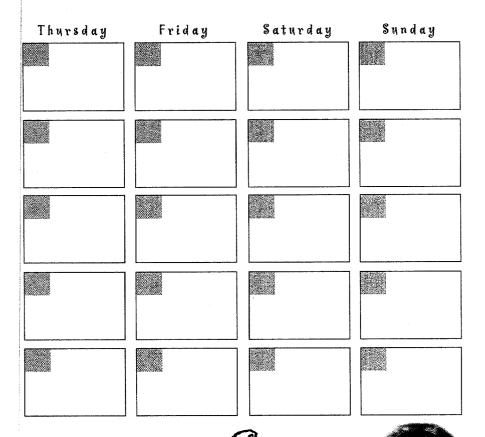


Y yan Yao

Analytical Chemist

Shealy Environmental Service, Inc.

Yuan Yao is an on-site contractor working on coating research at the Turner-Fairbank Highway Research Center of Federal Highway Administration in McLean, VA. Part of her responsibilities are to identify the most durable bridge coatings to prevent steel bridges from corrosion. She performs various chemical analyses and specialized tests for different kinds of paints and coatings. She also evaluates the coating performance using state-of-the-art equipment and accelerated test methods. In addition she supports other research groups by performing chemical analyses and developing new test methods for various highway materials, such as asphalt, concrete, cement, and de-icers.



# Carol Boome Air Traffic Controller Federal Aviation Administration

Carol Boome helps safely guide millions of passengers to their destinations. Working at Washington Center, Leesburg, VA, she provides instructions to pilots of hundreds of aircraft as they travel through her airspace.

"When I started, air traffic control was a male dominated career. There were very few women. Being accepted took a while. But all the hard work has paid off in many ways. I know now that I can accomplish anything I set my mind too. This career has been great for my self esteem.

For those women just starting out, once you have a goal, don't ever give up. The feeling of self satisfaction from your achievement will exceed anything you can imagine."



# a seful Websites

Garrett A. Morgan Technology and Transportation Futures Program http://education.dot.gov

Associations, Societies, etc.

Society for Women Engineers www.swe.org (SWE)

Women in Transportation Seminar (WTS)

www.wtsnational.org

Association for Women in Science (AWIS)

www.awis.org

Global Alliance for Diversifying the Science and Engineering Workforce www.globalalliancesmet.org

American Association of University Women (AAUW)

www.aauw.org

American Association of State Highway and Transportation Officials (AASHTO) TRAC

www.trac.net

American Society of Civil Engineers (ASCE):

www.asce.org

Society of Automotive Engineers (SAE)

www.sae.org

Institute of Transportation Engineers (ITE)

www.ite.org

Institute of Electrical and Electronics Engineers (IEEE)

www.ieee.org

American Society of Mechanical Engineers (ASME)

www.asme.org

Mathematical Association of America (MAA)

www.maa.org/students/ students\_index.html

Transportation Research Board www.nas.edu/trb/ Transportation Career Opportunities

link/tranjobs.html

American Planning Association (APA)

www.planning.org

National Society of Professional Engineers (NSPE)

www.nspe.org

National Society of Black Engineers (NSBE)

www.nsbe.org

Society of Mexican American Engineers and Scientists (MAES)

www.tamu.edu/maes/

National Action Council for Minorities in Engineering, Inc. (NACME)

www.nacme.org

Society of Hispanic Professional Engineers (SHPE)

www.shpe.org

Center for the Advancement of Hispanics in Science and Engineering Education (CAHSEE)

www.seas.gwu.edu/ student/cahsee/

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Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)

www.sacnas.org

American Indian Science and **Engineering Society (AISES)** 

www.aises.org

Conference of Minority Transportation Officials (COMTO)

www.comto.com

### Education, Scholarships, and Financial Aid:

Assistance from the Federal Government

www.whitehouse.gov/wh/ services/educate.htm

Minority On-Line Information Service (MOLIS)

www.sciencewise.com/molis/

Aids Student in Find Scholarships, www.fastweb.com Colleges and Jobs

Provides Scholarship Information www.scholaraid.com

Student Success, Inc.

www.makingcollegecount.com

College Entrance Examination Board www.collegeboard.com

### Other Sites To Surf:

National Women's History Project (NWHP)

www.nwhp.org

Girl Geeks

www.girlgeeks.com

Occupational Outlook Handbook

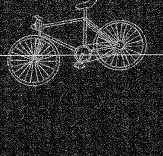
stats.bls.gov/ocohome.htm

History of Women in Transportation

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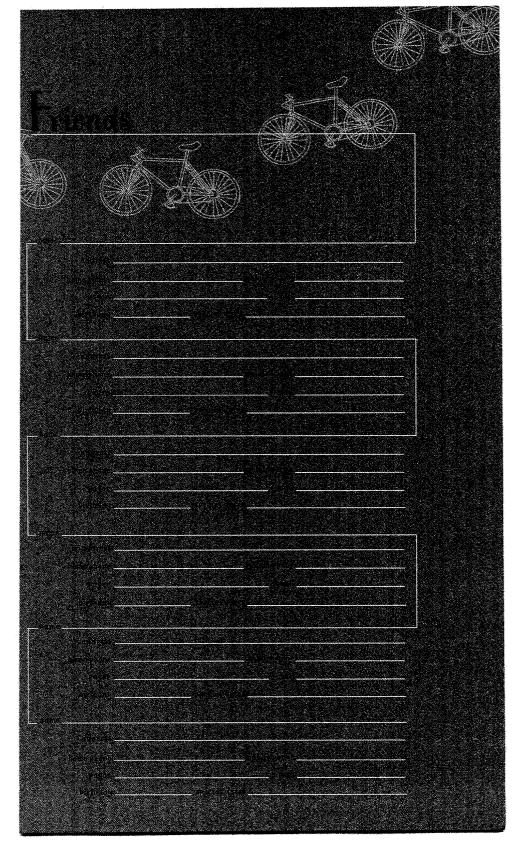


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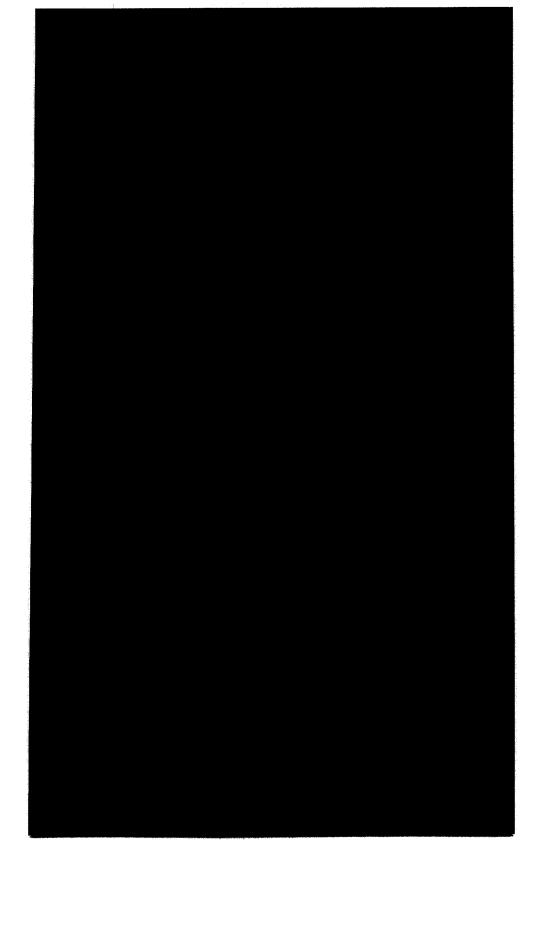


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is an initiative of the U.S. DOT to encourage students from kindergarten to adulthood to recognize the opportunities for achievement and service in transportation. The inspiration for the program came from the work of Garrett A. Morgan, an African American who was granted a patent for the first automated traffic signal in 1923.

Garrett A. Morgan Technology and Transportation Futures Program DRP-2 U.S. DOT Washington, DC 20590-0001

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